

© EPODOC / EPO

PN - JP8008947 A 19960112
PD - 1996-01-12
PR - JP19940164664 19940623
OPD - 1994-06-23
TI - COMMUNICATION DATA DIAGNOSTIC DEVICE FOR UNILATERAL
LOOP TRANSMISSION LINE
IN - KAWADA SHINYA
PA - FUJI ELECTRIC CO LTD
IC - H04L12/437

© WPI / DERWENT

TI - Unidirectional loop data transmission line diagnostic device for error detection and elimination - compares stage number read from header data with contents of internal register or most recent previous stage number and erases communication data when these two do not mutually correspond

PR - JP19940164664 19940623

PN - JP3114504B2 B2 20001204 DW200065 H04L12/437 005pp
- JP8008947 A 19960112 DW199611 H04L12/437 005pp

PA - (FJIE) FUJI ELECTRIC CO LTD

IC - H04L12/437

AB - J08008947 The unidirectional loop data transmission line connects a primary station (1) with several sub offices (2-6). The primary station notifies notice message (M) regarding stage number which changes periodically to sub office. The stage number is stored in the internal register provided in the sub office. When communication data D is transmitted from the self station to other office, the most recent stage number stored, is added to the header of the communication data.

- The communication data is transmitted from the primary station to the sub offices. When the data is received at a sub office, the stage number in the header is compared with the stage number stored in the internal register. When these two identical, the transmission is continued. When these two stage numbers are different, the communication data is erased.
- ADVANTAGE - Detects fault quickly. Increases speed of address check and overall transmission.(Dwg.1/5)

OPD - 1994-06-23

AN - 1996-103173 [11]

© PAJ / JPO

PN - JP8008947 A 19960112
PD - 1996-01-12
AP - JP19940164664 19940623
IN - KAWADA SHINYA
PA - FUJI ELECTRIC CO LTD
TI - COMMUNICATION DATA DIAGNOSTIC DEVICE FOR UNILATERAL
LOOP TRANSMISSION LINE
AB - PURPOSE: To attain a high speed transmission of data through the
entire transmission line by quickly checking a destination of
communication data to be relayed.
- CONSTITUTION: A master station 1 and slave stations 2-6 are
installed on a unilateral loop transmission line 10 and the master
station 1 reports a stage number notice message M changing
periodically to the slave stations 2-6. Each of the slave stations 2-6
stores its stage number to an internal register and adds the newest
stage number to be stored to a header of communication data D
when each sends the communication data D addressed to other
stations. Upon the receipt of the communication data D for relay
purpose, the master station 1 and the slave stations 2-6 read a
stage number added to the header of the communication data D to
discriminate whether or not the stage number matches the newest
or just preceding stage number in the internal register. When the
stage number matches, the communication data D are sent to a
succeeding station, and when the stage number does not match,
the communication data D are deleted.
I - H04L12/437